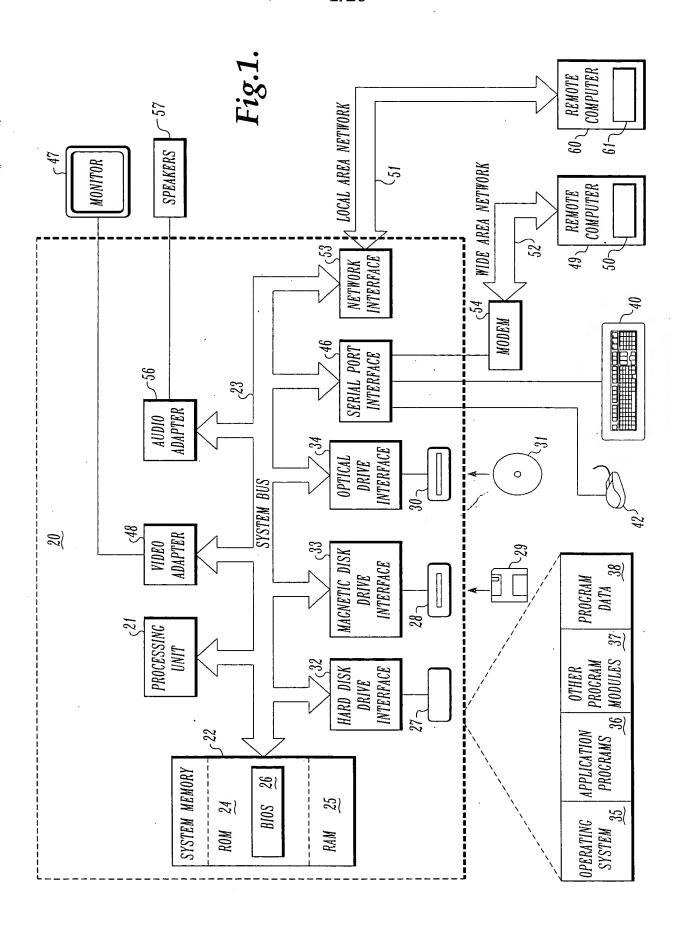
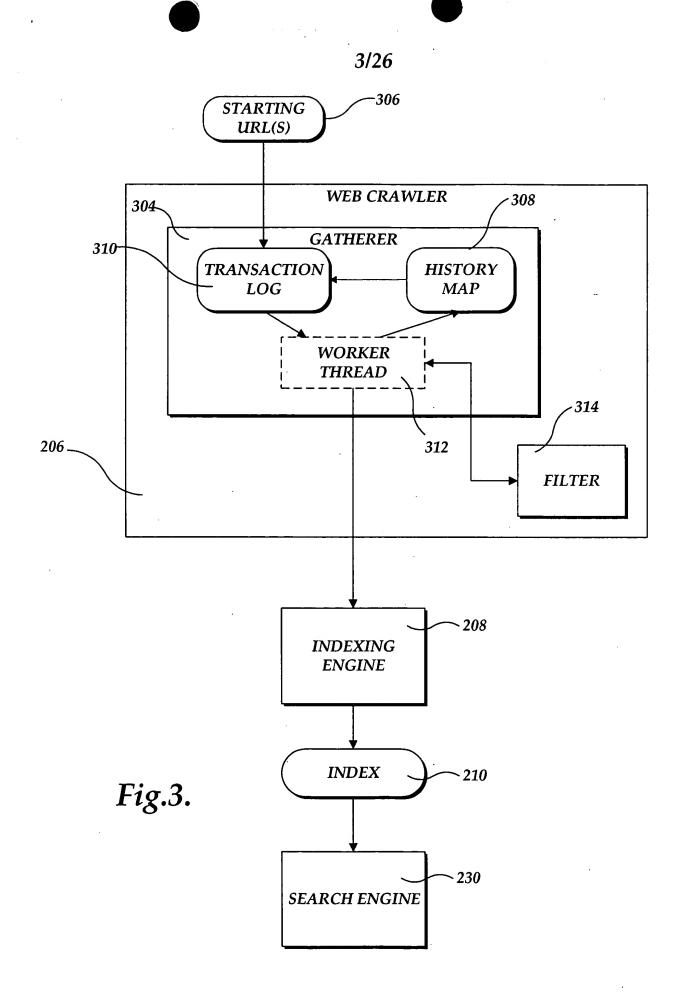
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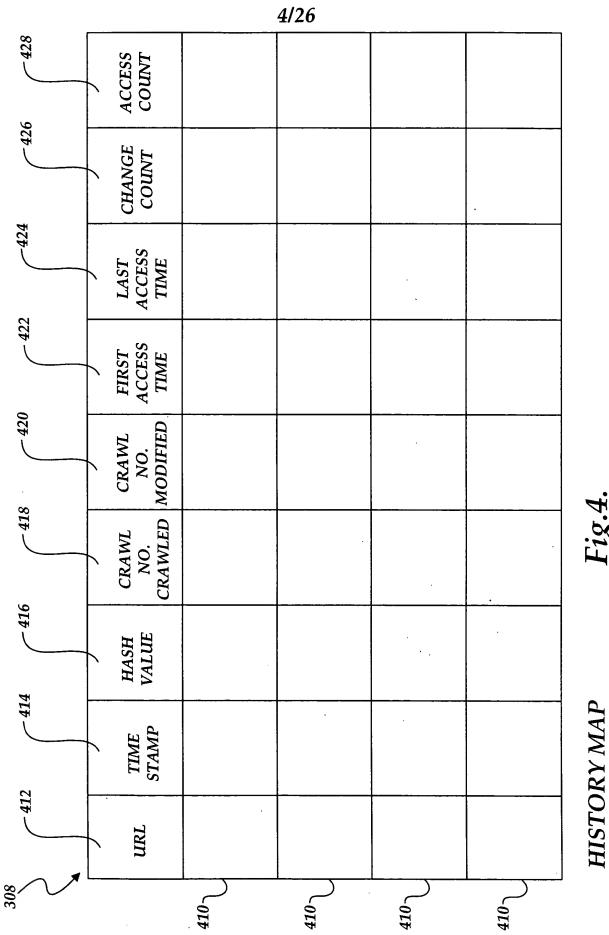


Fig.4.

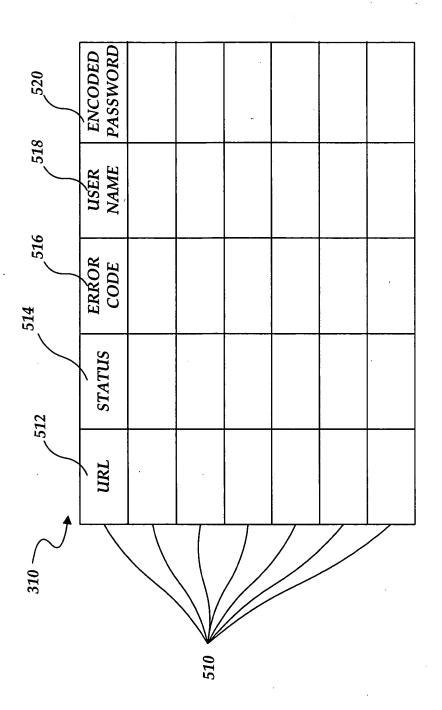


Fig.5.

TRANSACTION LOG

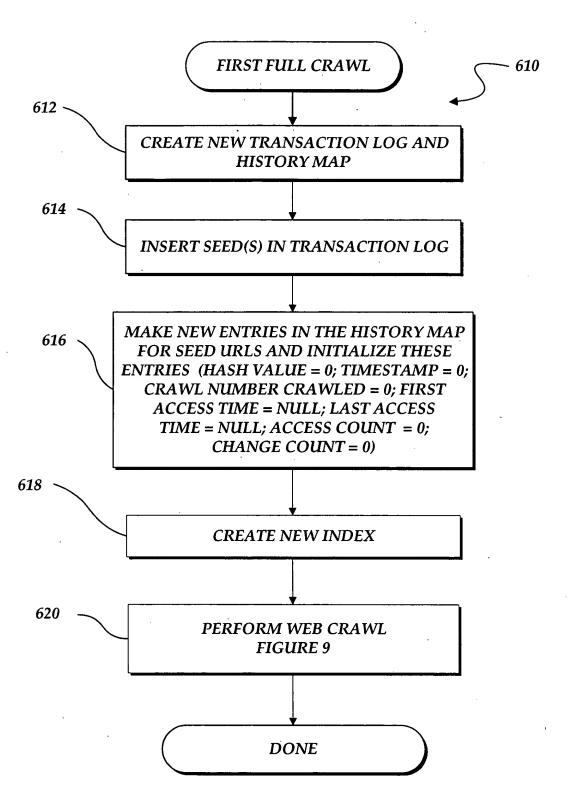
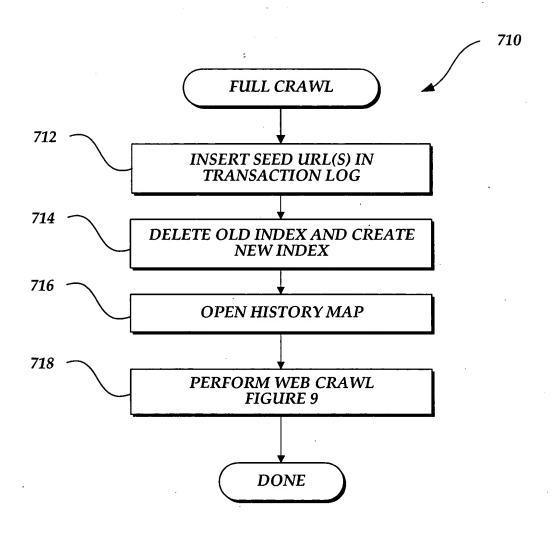
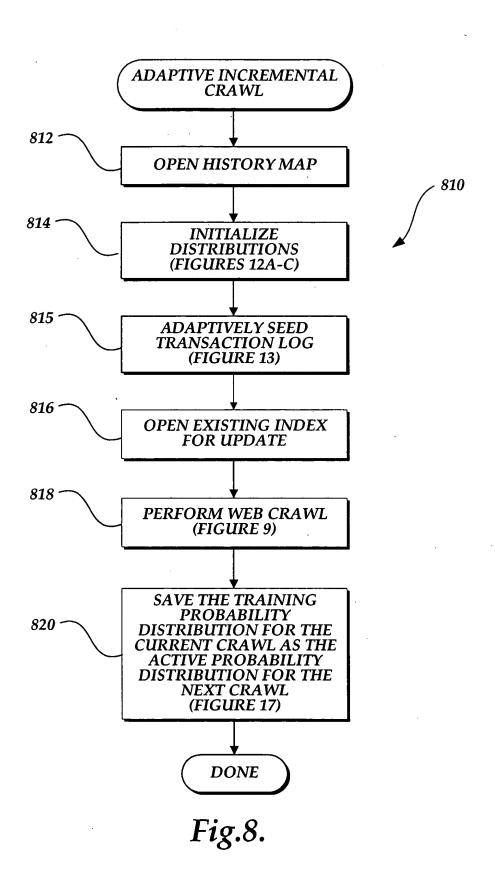


Fig.6.



*Fig.*7.



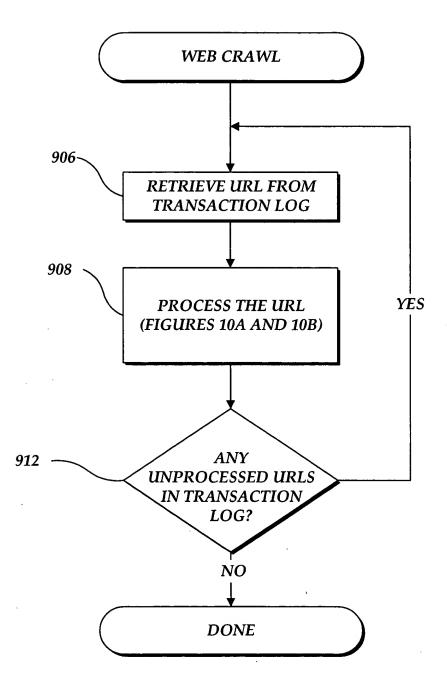
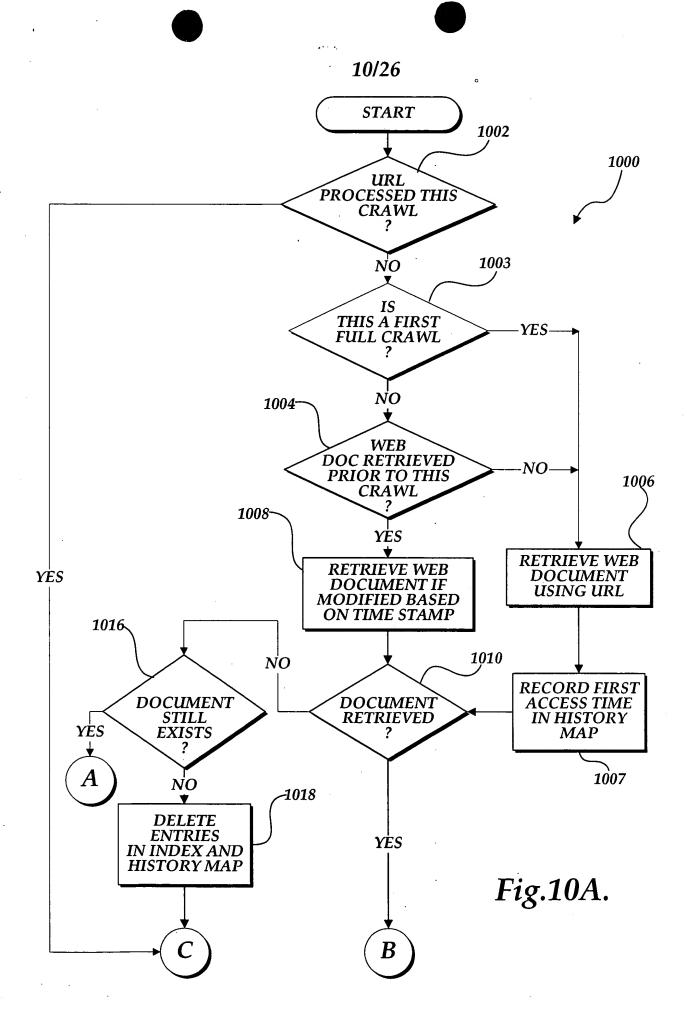
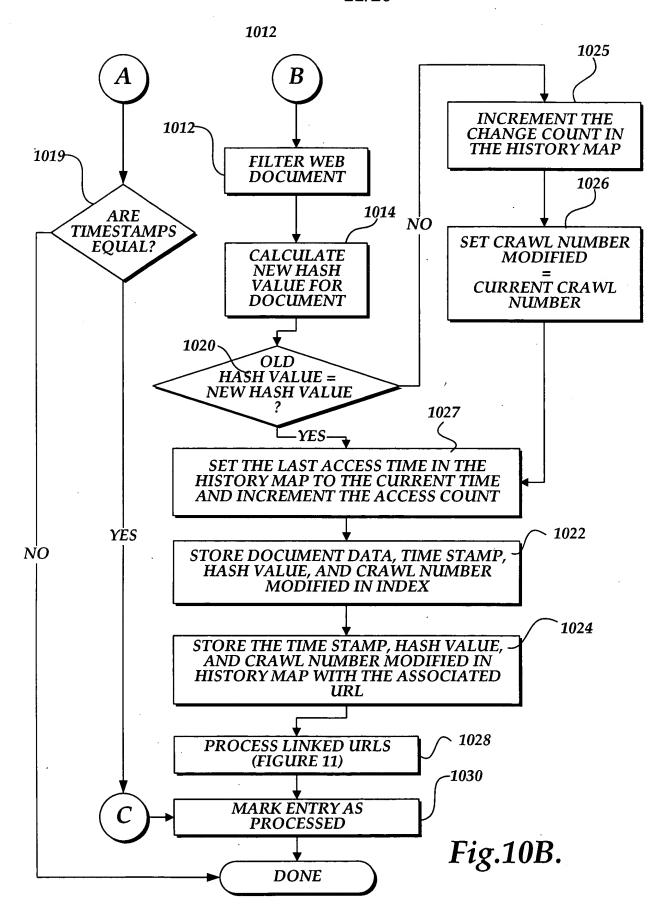
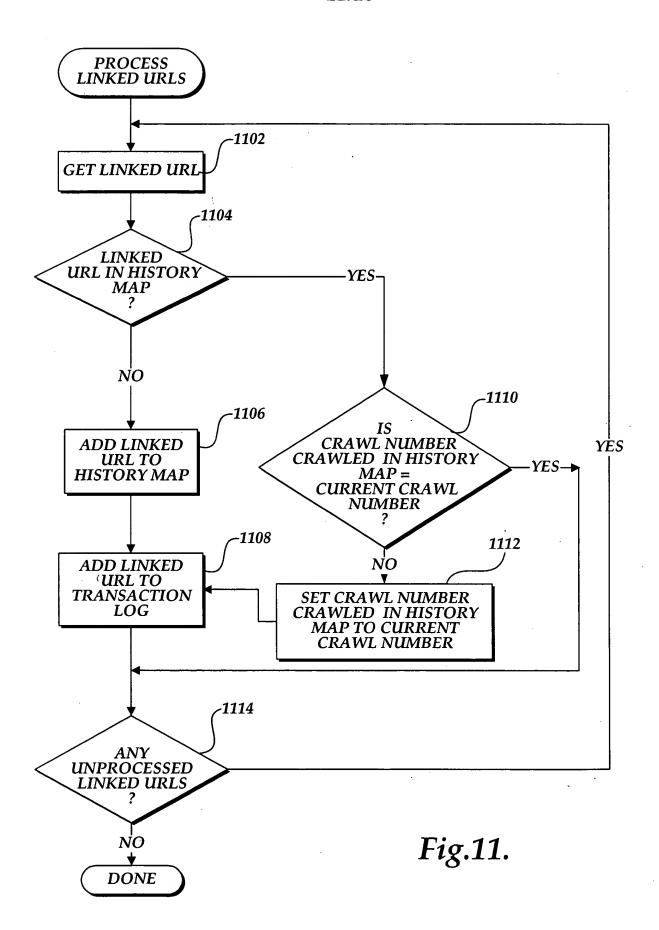


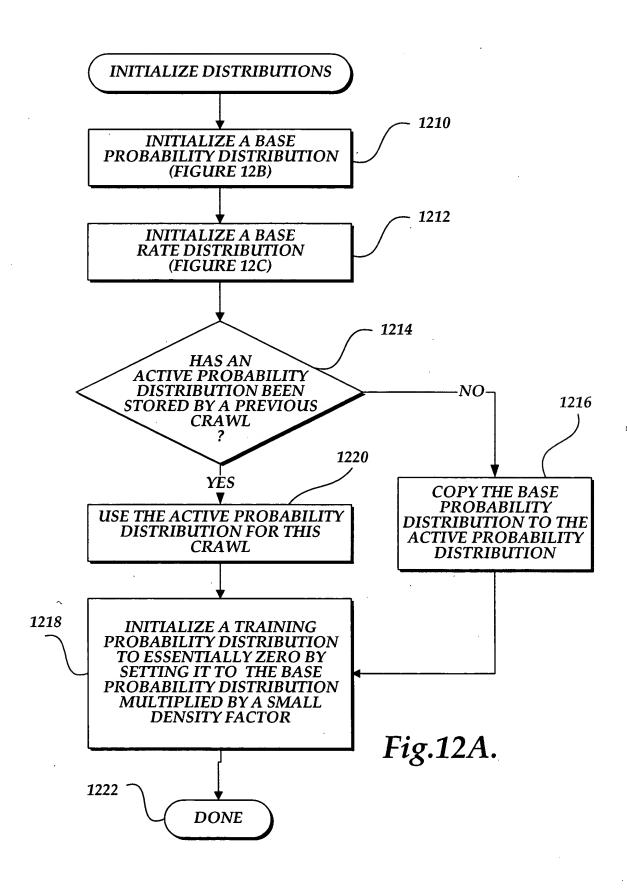
Fig.9.



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BASE PROBABILITY OF DOCUMENT CHANGE DURING INTERVAL (N)

BASE PROBABILITY DISTRIBUTION

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.3/(n-1)	.3/(n-1)	.3/(n-1)	.3/(n-1)	.3/(n-1)	.3/(n-1)
P1	P2	P3	P4	P5	P6

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30% OF DOCUMENTS ARE ASSUMED TO CHANGE AND ARE UNIFORMLY DISTRIBUTED AMONG THE SAMPLE CHANGE CHANGE RATE IS EXPRESSED AS A PERCENTAGE OF ALL RATES. THE NUMBER OF DOCUMENTS WITH A GIVEN PREVIOUSLY RETRIEVED DOCUMENTS.

Fig.12B.

70% OF DOCUMENTS ASSUMED TO NEVER CHANGE

(N) **PROBABILITIES SYMPLE**

3/(n-1)

P7

.3/(n-1)

P8

.3/(n-1)

P9

3/(n-1)

Pn-1

۲.

Pn

BASE RATE DISTRIBUTION

CHANGE RATE

LINEARLY SELECT SAMPLE CHANGE RATES BETWEEN A LOW CHANGE RATE AND A HIGH CHANGE RATE. SELECT CHANGE RATE (IN CHANGES/ SECOND) THAT IS SMALL ENOUGH THAT THE DOCUMENT IS ESSENTIALLY STATIC

r(n-1)

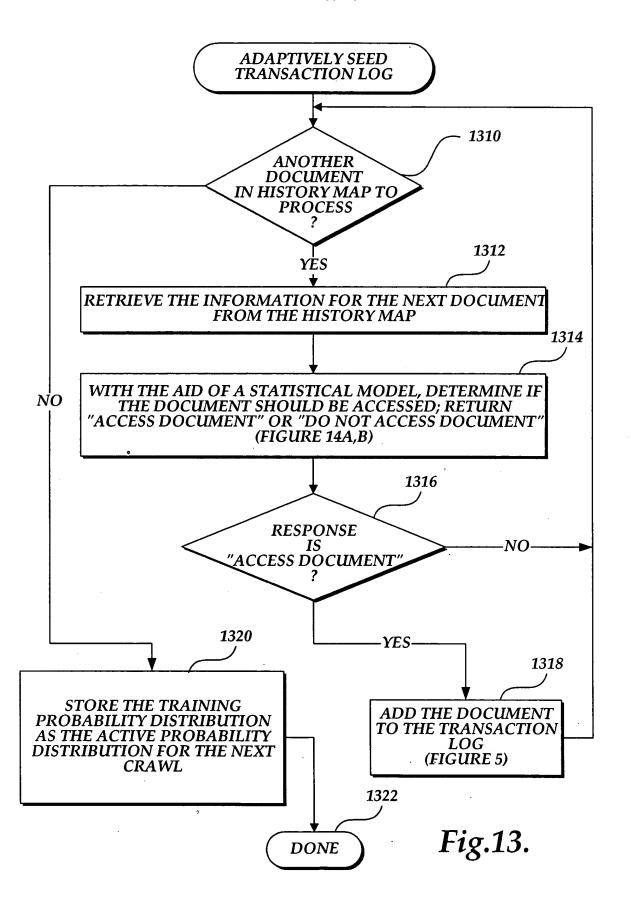
n

17

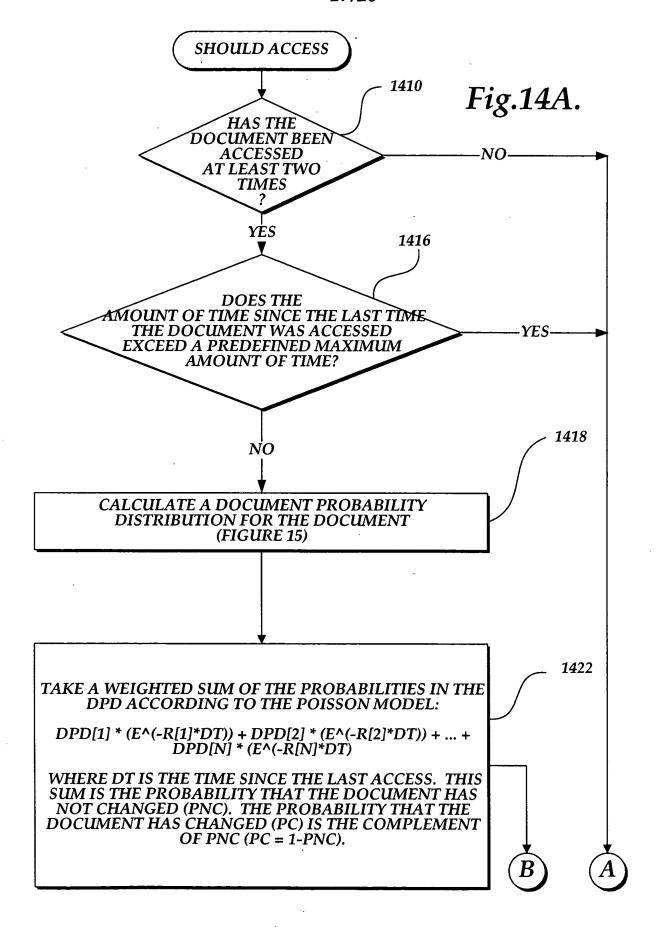
78

Fig.12C.

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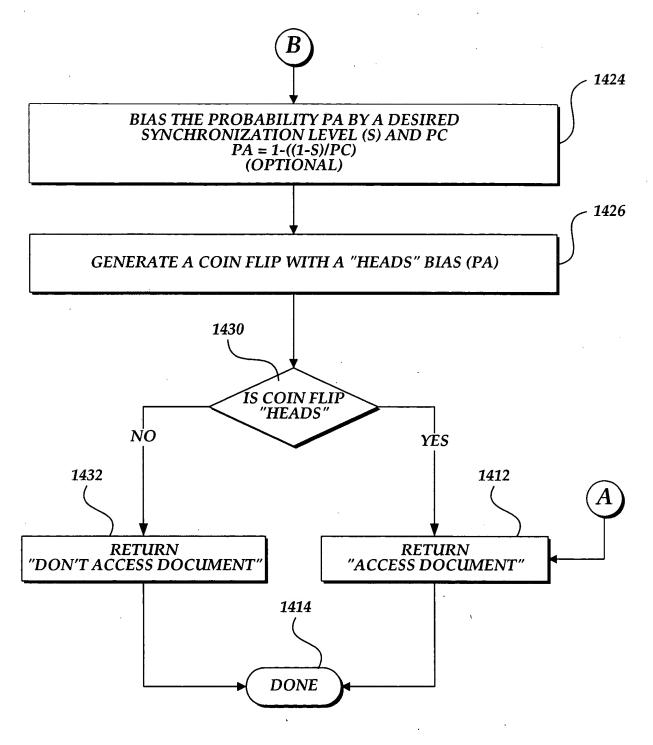


Fig.14B.

